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| APPLICATION NO.  | FILING DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO.        |  |
|--|----------------|----------------------|-------------------------|-------------------------|--|
| 09/646,671   | 09/20/2000     | Shouochi Uno         | 501.39082x00            | 2273                    |  |
| 7  | 590 07/30/2003 |                      |                         |                         |  |
| Antonelli Terry Stout & Kraus                                      |                |                      | EXAMINER                |                         |  |
| Suite 1800<br>1300 North Seventeenth Street<br>Arlington, VA 22209 |                |                      | LEE, EUGENE             |                         |  |
| Arington, VA   | 22209          |                      | ART UNIT                | PAPER NUMBER            |  |
| •  |                |                      | 2815                    | 2815                    |  |
|  |                | •                    | DATE MAILED: 07/30/2003 | DATE MAILED: 07/30/2003 |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | - <del>-</del> - <del>-</del>  | 9  | m                                     |  |  |  |
|---|--|--|---------------------------------------|--|--|--|
|   | Application No.  | Applicant(s)   |                                       |  |  |  |
|   | 09/646,671   | UNO ET AL.   |                                       |  |  |  |
| Office Action Summary   | Examiner   | Art Unit   | · · · · · · · · · · · · · · · · · · · |  |  |  |
|   | Eugene Lee   | 2815   |                                       |  |  |  |
| The MAILING DATE of this communication ap<br>Period for Reply   | pears on the cover sheet with the c  | orrespondence address  |                                       |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).  Status | 136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONET | ely filed will be considered timely. he mailing date of this communication of (35 U.S.C. § 133). |                                       |  |  |  |
| 1) Responsive to communication(s) filed on 20   | September 2000 .   |  |                                       |  |  |  |
| 2a) ☐ This action is <b>FINAL</b> . 2b) ☑ T   | his action is non-final.   |  |                                       |  |  |  |
| 3) Since this application is in condition for allow closed in accordance with the practice under  |  |  | s                                     |  |  |  |
| Disposition of Claims   |  |  |                                       |  |  |  |
| 4) Claim(s) $\underline{1-40}$ is/are pending in the application  | n.   |  |                                       |  |  |  |
| 4a) Of the above claim(s) is/are withdra  | awn from consideration.  |  |                                       |  |  |  |
| 5) Claim(s) is/are allowed.   |  |  |                                       |  |  |  |
| 6) Claim(s) is/are rejected.  |  |  |                                       |  |  |  |
| 7) Claim(s) is/are objected to.   |  |  |                                       |  |  |  |
| 8) Claim(s) <u>1-40</u> are subject to restriction and/or   | election requirement.  |  |                                       |  |  |  |
| Application Papers  | ••   |  |                                       |  |  |  |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) □ acce  |  | niner  |                                       |  |  |  |
|   |  |  |                                       |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.   |  |  |                                       |  |  |  |
| If approved, corrected drawings are required in re  |  | •  |                                       |  |  |  |
| 12) The oath or declaration is objected to by the E   |  |  |                                       |  |  |  |
| Priority under 35 U.S.C. §§ 119 and 120   |  |  |                                       |  |  |  |
| 13) Acknowledgment is made of a claim for foreig  | n priority under 35 U.S.C. § 119(a   | )-(d) or (f).  |                                       |  |  |  |
| a) ☐ All b) ☐ Some * c) ☐ None of:  |  |  |                                       |  |  |  |
| 1. ☐ Certified copies of the priority documents have been received.   |  |  |                                       |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No  |  |  |                                       |  |  |  |
| <ul> <li>Copies of the certified copies of the price</li> <li>application from the International B</li> <li>See the attached detailed Office action for a lis</li> </ul>  | ureau (PCT Rule 17.2(a)).  |  |                                       |  |  |  |
| 14) Acknowledgment is made of a claim for domes   | •  |  | on).                                  |  |  |  |
| a) The translation of the foreign language pr   |  |  | •                                     |  |  |  |
| 15) Acknowledgment is made of a claim for domes   | • •  |  |                                       |  |  |  |
| Attachment(s)   | A 🗀  | (PTO 413) Paper Na/a)  |                                       |  |  |  |
| <ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>  | 5) Notice of Informal F  | (PTO-413) Paper No(s) Patent Application (PTO-152)   |                                       |  |  |  |
| I.S. Patent and Trademark Office  |  |  |                                       |  |  |  |

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**DETAILED ACTION** 

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 18-24, drawn to semiconductor device.

Group II, claim(s) 1-17, and 25-40, drawn to method of making a semiconductor device.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as the product made and the process of making. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. For example, as an alternative to the methods set forth in claims 1-17, and 25-40, instead of forming a first recess in said first insulating film by a plasma etching treatment, one can use a chemical etching treatment.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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4. Applicant is advised that the reply to this requirement to be complete must include an

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election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eugene Lee whose telephone number is 703-305-5695. The

examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie C. Lee can be reached on 703-308-1690. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-308-7722 for regular

communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

Eugene Lee

July 26, 2003

EDDIE LEE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800